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TITLE : ELECTRET FILTER

ABSTRACT : **PURPOSE:** To obtain both of mechanical strength and removing rate of dust by laminating electret porous films and nonwoven fabric comprising fibers produced by coating a resin having high melting point as the core with a resin having low melting point like a sheath around the core.

CONSTITUTION: This electret filter is produced by laminating both at least one porous film and nonwoven fabric. Namely, the filter is produced by laminating nonwoven fabric on one or both surfaces of a porous film or by laminating porous films on both surfaces of nonwoven fabric. In this case, the porous film comprising a heat-resistant resin such as polytetrafluoroethylene is treated with corona discharge or the like to change it into an electret. As for the heat-resistant resin, such a resin having higher melting point than the material to form the sheath of the fiber which constitutes the nonwoven fabric is selected. The nonwoven fabric consists of the fibers produced by coating a resin having high melting point as the core with a resin having low melting point like a sheath around the core.

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